

Title (en)

Superconducting oxide tape manufacturing method.

Title (de)

Herstellungsverfahren eines supraleitenden oxydischen Bands.

Title (fr)

Procédé de fabrication d'un ruban à base d'oxyde supraconducteur.

Publication

**EP 0390016 B1 19950503 (FR)**

Application

**EP 90105681 A 19900326**

Priority

FR 8904251 A 19890331

Abstract (en)

[origin: EP0390016A2] Tape (4') based on a superconducting oxide containing Cu-O, characterised in that it comprises a substrate (4) made of a composite or flexible metallic material, with rectangular cross-section, provided on at least one of its faces with a cavity-free film, made of a perovskite-type superconducting oxide with congruent or near-congruent melting, or with peritectic decomposition close to a eutectic point, the thickness of the said film lying between 1  $\mu$ m and 100  $\mu$ m, the orientation of the axis C of the superconducting crystals being perpendicular to the said face of the said substrate. <IMAGE>

IPC 1-7

**H01L 39/24**; **H01L 39/14**

IPC 8 full level

**C01G 1/00** (2006.01); **C04B 41/87** (2006.01); **C30B 29/22** (2006.01); **H01B 5/02** (2006.01); **H01B 12/06** (2006.01); **H01B 13/00** (2006.01); **H01L 39/14** (2006.01); **H01L 39/24** (2006.01)

CPC (source: EP US)

**H10N 60/0296** (2023.02 - EP US); **H10N 60/0576** (2023.02 - EP US); **H10N 60/203** (2023.02 - EP US); **Y10S 428/93** (2013.01 - EP US); **Y10S 505/701** (2013.01 - EP US); **Y10S 505/702** (2013.01 - EP US); **Y10S 505/703** (2013.01 - EP US); **Y10S 505/704** (2013.01 - EP US); **Y10T 428/31504** (2015.04 - EP US); **Y10T 428/31678** (2015.04 - EP US)

Citation (examination)

APPLIED PHYSICS LETTERS, vol. 51, no 12, 21 September 1987, pages 943-945, S. JIN et al. : "Fabrication of dense Ba<sub>2</sub>YCu<sub>3</sub>O<sub>7-d</sub> superconductor wire by molten oxide processing"

Cited by

EP0490784A3; EP0457277A3; US5403818A

Designated contracting state (EPC)

BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0390016 A2 19901003**; **EP 0390016 A3 19910109**; **EP 0390016 B1 19950503**; DE 69019053 D1 19950608; DE 69019053 T2 19950831; FR 2645334 A1 19901005; FR 2645334 B1 19940422; JP H02306508 A 19901219; US 5116808 A 19920526

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